Fax:312

COMBINED AMENDMENT & PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a) (Large Entity)					Docket No. 112740-355
In Re Application	n Of: Horn et al.			+	
Serial No.	Fili	ng Date	Examiner		Group Art Unit
09/980,174		er 29, 2001	Kimberly D. Nguy	ед	2876
Invention: DA	TA TRANSFER METE	AOD AND ARRAN	GEMENT		
	ed amendment and pe	etition under the pro	ONER FOR PATENTS:	(a) to extend the	e period for filing a
response to the	Office Action of	July 16, 2003 in <i>Date</i>	n the above-identified app	dication.	1
The requested e	xtension is as follows ((check time period	desired):	•	
		571	nree months 🔲 Fou	r months. [☐ Five months
One m	onth 🛚 Two m	nonths 🖾 It	Hee months Ca Foo	r monus.	Five months
from:	October 16, 26 Date			uary 16, 2904 Date	- Five months
from:	October 16, 20 Date	003		uary 16, 2004 Date	- Five months
from:	October 16, 20 Date	903 sion of time has be	until: Jan	uary 16, 2004 Date	- Five months
from:	October 16, 20 Date amendment and exten	sion of time has be	en calculated as shown	Date	
from:	October 16, 20 Date	903 sion of time has be	een calculated as shown S AMENDED NUMBER EXTRA	uary 16, 2004 Date	ADDITIONAL
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COMBINED AMENDMENT & TIME UNDER 37 CI	Docket No. 112740-355	
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The fee for the amendment and exte		
A check in the amount of	6950.00 for the amendment and exte	ension of time Is enclosed.
☐ Please charge Deposit Account	No. in the amount of	\$950.00
	ed to charge payment of the following fee erpayment to Deposit Account No. 02-	es associated with this 1818
•	equired under 37 C.F.R. 1.16. cessing fees under 37 CFR 1.17.	
If an additional extension of time fees which may be required to D	is required, please consider this a petitl reposit Account No. 02-1818	on therefor and charge any additional
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CC:

Dated: January 16, 2004

> I certify that this document and fee is being deposited chanuary 16, 2004 with the U.S. Postal Service as first class mall under 37 C.F.R. 1.8 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

> > Signature of Petson Mailing Correspondence

Mary Beth Egan

Typed or Printed Name of Person Mailing Correspondence

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DETAILED ACTION

Drawings

1. This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims **1-16** are rejected under 35 U.S.C. 103(a) as being unpatentable over Lawless et al. (US patent no. 5,818,469) in view of Grossman et al. (US patent no. 5,230,039).

Re claims 1, 5, 9, and 13, Lawless teaches a method of detecting texture sharing between multiple contexts having unique context ID's, obtaining a texture usage mask of a subject texture (col. 3, line 5 to col. 6, line 26). In other words, Lawless teaches when a graphics application command is detected, the command is received by the master thread and a determination is made as to whether an attribute change (i.e. texture sharing) is required for the particular command received. If an attribute change is required, the master thread context is updated and the attribute change is flagged (i.e. unique context ID) in a workgroup control block by the master thread. The master thread then creates a workgroup control block and a synchronization tag in accordance

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with the order in which the workgroup was created. Thus, when an unprocessed workgroup is identified, that workgroup is locked and the attributes are updated using the workgroup control blocks in reverse order to obtain the most recent attribute changes.

Lawless *fails* to specifically disclose ANDing the texture usage mask, the resultant value being equal to 0, and the resultant value not being equal to 0 as claimed. However, Grossman (col. 10, line 52 to col. 13, line 20; figs. 4-5b) indicates that it's well known to have texture mapping wherein a mask value is compared to determine if the resultant value is being equal to 0 or not being equal to 0 base on the texture being used. When testing a particular texture is being used or not being used then it is testing the sharing of content of the texture. These two values (i.e. mask register A and mask register B) are ANDed together to produce a masked value. For example, Grossman logic operation is testing if the masked input coordinate is equal or not equal to the value stored in a compare register. If the outside map factor value is equal to zero then processing path is taken to the bubble labeled B as shown in figure 5b, whereas if the outside map factor is non-zero then processing continues at the bubble labeled A as illustrated in figure 5b.

Therefore, taking the combined teaching of Lawless and Grossman as a whole, it would have been obvious to modify Lawless to detecting that the subject texture is not being shared by another context with the subject context upon the resultant value being equal to 0 and the resultant value not being equal to 0 as claimed. Doing so would

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enable detecting the usage of the texture if it's is being shared or not shared base on logic operations (col. 10, line 52 to col. 13, line 20; figs. 4-5b).

Re claims **2**, **6**, **10**, **and 14**, Grossman discloses revising the texture usage mask of a subject texture prior to the subject texture being used by another context by bitwise ORing the texture usage mask with a context ID of the another context to produce a resultant new texture usage mask for the subject texture (col. 10, line 52 to col. 13, line 20). Grossman teaches logic operation where the one subject texture is compared to another subject texture. He uses the ANDing and ORing operations to revised the texture mapping.

Re claims **3-4**, **7-8**, **11-12**, **and 15-16**, Grossman discloses revising the texture usage mask of a subject texture upon the subject texture no longer being used by a particular context by deleting a context ID of the particular context from the texture usage mask to produce a resultant new texture usage mask for the subject texture (col. 10, lines 17-50). In other words, Grossman teaches the unused texture mask is suppressed thus the texture no longer being used is deleted.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Baldwin et al., US Patent No. 5,594,854

Nakamura et al., US Patent No. 5,550,962

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Inquiries

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu-Thao Havan whose telephone number is (703) 308-

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on (703) 305-4713.

7062. The examiner can normally be reached on Monday to Thursday from 9:00-5:00.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Thu-Thao Havan

November 20, 2002

MICHAEL RAZAVI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600